A B S T R A C T

A HYDROSTATIC TRANSMISSION CIRCUIT WITH REPLENISHING FOR A VEHICLE

The circuit comprises a main hydraulic pump (52), two main ducts (50, 54), a booster pump (56), a hydraulic motor (10; 20) which comprises two elementary motors (11, 12; 21, 22) for driving a first displacement member (1, 2), and a second hydraulic motor (30; 40) for driving a second displacement member (3, 4). The second elementary motor (12) is in parallel with the second main motor (30) while the first elementary motor (11) and the second main motor (20) are connected to a feed or discharge additional duct, e.g. via a series link between them. The booster pump (56) is connected to the additional duct, e.g. an interconnection duct (60; 62) for interconnecting the first elementary motor (11; 21) and the second main motor (30; 40). A replenishing valve (70) is suitable for connecting one of the main ducts to a pressure-free reservoir (51) and the circuit further comprises means (72) for preventing said replenishing link from being established on detecting a condition that reveals a spin situation.

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